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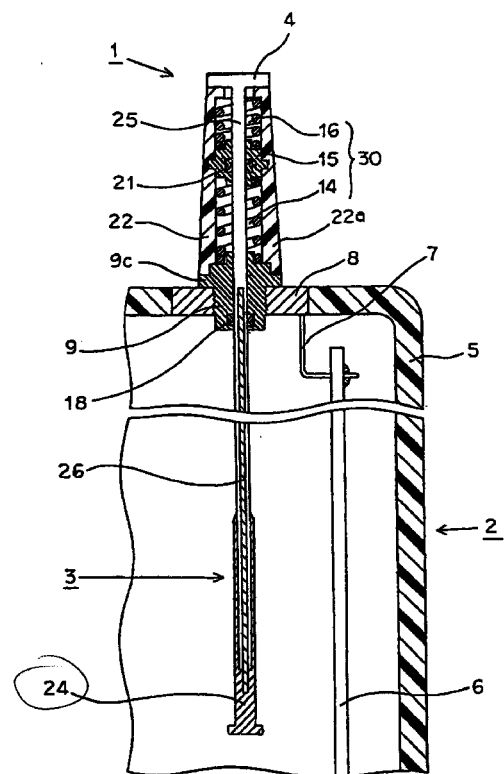
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(54) **Antenna device**

(57) There is described an antenna device including feeding hardware attached to a housing of a portable radio; and a helical antenna element whose base end is connected to the feeding hardware. The helical antenna element is caused to resonate at a first frequency as a 1/4-wavelength helical antenna and to resonate at a second frequency lower than three times the first frequency as a 3/4-wavelength helical antenna, by adjustment of an extended length and a winding pitch.

**Fig. 1**



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EUROPEAN SEARCH REPORT

Application Number  
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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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